Memorandum

Flex your power!
Be energy efficient!

To: DEPUTY DISTRICT DIRECTORS, Construction CONSTRUCTION MANAGERS

SENIOR CONSTRUCTION ENGINEERS
RESIDENT ENGINEERS, Construction

Date: September 2, 2003

File: Division of Construction

CPD 03-04

From: ROBERT PI

Chief

Division of Construction

Subject: Pile Driving Acceptance Criteria

Contract special provisions with advertisement dates later than May 1, 2003 may contain a disjointed equation for determining the nominal resistance values of driven piles. A contract change order will be required if the disjointed equation is contained within a project's special provisions and meets the requirements contained in this memorandum.

The equation of concern is located in section 1 of the affected contracts' special provisions as an amendment of section 49-1.08, "Pile Driving Acceptance Criteria," of the Standard Specifications. The disjointed equation will not include a comprehensible exponent on the "Er" term and may appear as follows:

$$Ru = (7 * (Er)^{-} * log_{10} (0.83 * N)) - 550$$

The correct equation is shown as follows for comparison purposes:

$$Ru = (7 * (Er)^{1/2} * log_{10} (0.83 * N)) - 550$$

If the contract special provisions contain the disjointed equation, the attached contract change order is to be issued unless any of the following conditions exist in the contract:

- Driven piles are not included or anticipated in the contract.
- Use of the nominal resistance value equation has been waived within section 10 of the special provisions as an acceptance criterion for all driven piles in the contract.

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• Use of the nominal resistance value equation has been overridden within section 10 of the special provisions by specification of an alternative means for determining pile acceptance for all driven piles in the contract (e.g., wave

equation analysis).

The attached contract change order will be issued as a no-cost change since the equation is industry recognized and utilization of the disjointed equation for determination of

nominal resistance values of driven piles is unrecognizable.

This memorandum will serve as Division of Construction's authorization of approval for the attached contract change order. Transmittals to the headquarters contract change

order desk will not be required for this change.

If you have any questions or comments regarding this construction directive, please contact Scott Jarvis, Chief, Office of Contract Administration at (916) 651-6284.

Attachment

c: HQ Construction staff

bc: CD folder

Construction Subject File, Construction Author (Darby) File

KD:sf

		IIA - DEPARTMEN	T OF	Sheet	1_	_ of	1
CONTR	RACT CHA	NGE ORDER	Cł	nange Requested by:	Engineer	∇	Contractor
CCO No.	Suppl. No.	Contract No.	Road	Federal Numb			
specification	ons for this cont	ract. NOTE: This ch	from the plans and specifications or do the	ed by the Engineer			•
account.) lidle time. The	Jnless otherwise ne last percenta	e stated, rates for rental ge shown is the net acc	ies and prices to be paid. (Segregate between of equipment cover only such time as equip numulated increase or decrease from the original sumulated increase or decrease or decre	ment is actually used a iinal quantity in the Eng	nd no allowa ineer's Estir	ance w	vill be made for
	•	•	ection 49-1.08, "Pile Dations is amended to r	•	eptano	ce (Criteria,"
forr ma obs	nula in w nufacture erved fie	hich "R _u " is t er's rating for ld drop heigh	or driven piles shall be done the nominal resistance in joules of energy developent, and "N" is the number lue to be used for N is 10	kilonewtons, ed by the ha of hammer l	"Er" is	s th at t	e he
Thora	s aball b) ^{1/2} * log ₁₀ (0.83 * N)) - 550		hia ah	004	70
rnere	snall be	e no cost oi	r credit to the state by				ge.
			Estimated Cost: : Decreas	se Increase	\$ 0.0	00	
By reason Submitted		he time of completion	on will be adjusted as follows: None				
Signature	ы		(Print name & title)				Date
Approval I	Recommended	bv	I				
Signature			(Print name & title)				Date
Engineer /	Approval by						
Signature			(Print name & title)		-		Date

We the undersigned contractor, have given careful consideration to the change proposed and agree, if this proposal is approved, that we will provide all equipment, furnish the materials, except as may otherwise be noted above, and perform all services necessary for the work above specified, and will accept as full payment therefor the prices shown above. NOTE: If you, the contractor, do not sign acceptance of this order, your attention is directed to the requirements of the specification as to proceeding with the ordered work and filing a written protest within the time therein specified.

Contractor Acceptance by							
Signature	(Print name & title)	Date					